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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,588	04/30/2001	Xiaohui Wang	82295WFN	3243
75	590 07/27/2004		EXAMINER	
Thomas H. Close			KAO, CHIH CHENG G	
Patent Legal St	aff			
Eastman Kodak Company			ART UNIT	PAPER NUMBER
343 State Street			2882	
Rochester, NY 14650-2201			DATE MAILED: 07/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

				6.1				
		Application No.	Applicant(s)					
Office Action Summary		09/845,588	WANG ET AL.					
		Examiner	Art Unit					
		Chih-Cheng Glen Kao	2882					
Period f	The MAILING DATE of this communication or Reply	appears on the cover sheet with t	he correspondence address	_				
THE - External after aft	HORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIO ensions of time may be available under the provisions of 37 CFF r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a poperiod for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by state that the month of the period by the Office later than three months after the month of the period patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (30 riod will apply and will expire SIX (6) MONTHS atute, cause the application to become ABANI	be timely filed  O) days will be considered timely.  If from the mailing date of this communication  DONED (35 U.S.C. § 133).	on.				
Status								
1)⊠	Responsive to communication(s) filed on 23	3 June 2004.						
•	• • • • • • • • • • • • • • • • • • • •	This action is non-final.						
3)□	·—							
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	Claim(s) 1-5 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-5</u> is/are rejected.							
7)	Claim(s) is/are objected to.	•						
·	Claim(s) are subject to restriction and	d/or election requirement.						
Applicat	ion Papers							
9)□	The specification is objected to by the Exam	niner.						
	The drawing(s) filed on 23 June 2004 is/are:		d to by the Examiner.					
,	Applicant may not request that any objection to t		•					
	Replacement drawing sheet(s) including the corr		- · ·	(d).				
11)	The oath or declaration is objected to by the			/-				
Priority :	under 35 U.S.C. § 119							
	Acknowledgment is made of a claim for fore  All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p	ents have been received. ents have been received in Appli	ication No					
	application from the International Bur	// · ·	· ·					
* (	See the attached detailed Office action for a l	list of the certified copies not rec	eived.					
A44	463							
Attachmer		A	man: (DTO, 440)					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sumr Paper No(s)/M	nary (P10-413) ail Date					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ er No(s)/Mail Date		nal Patent Application (PTO-152)					

## **DETAILED ACTION**

## **Drawings**

1. The drawings were received on June 23, 2004. These drawings are acceptable.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asahina (JP 07-067866) in view of Relihan et al. (US Patent 6233310).
- 3. Regarding claim 1, Asahina discloses a method for acquiring a radiographic image (Fig. 4) comprising: positioning an object (Fig. 4, #12) between a stationary but pivotally mounted source of x-rays (Fig. 4, #11) and a flat capture device (Fig. 4, #13); moving the flat device in a planar direction parallel to a known imaging dimension (Fig. 4, #13) to sequential contiguous positions to acquire a sequence of images (Paragraph 29); and rotating said source of x-rays about a first fixed axis perpendicular to the direction of moving said device and which is in a plane spaced from and parallel to the planar direction in coordination with said moving to project x-rays from the source to the device (Fig. 4, #11).

However, Asahina does not disclose a digital image capture device.

Relihan et al. teaches a digital image capture device (col. 3, lines 38-43).

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to incorporate the method of Asahina with the digital image capture device of Relihan et al., since one would be motivated to incorporate this to provide more capabilities (col. 3, lines 38-43) as implied from Relihan et al. or to eliminate elements, such as an analog to

digital converter, to make the apparatus more compact.

Also note that Relihan et al. shows that image intensifiers and digital detectors are equivalent structures known in the art. Therefore, because these two devices were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute one for another.

- Regarding claim 3, Asahina further discloses the source rotated about an axis coincident 4. with the x-ray focal spot (Abstract).
- 5. Regarding claim 4, Asahina further discloses the source of x-rays rotated about an axis (Fig. 4, #11) the distance of which from the x-ray focal spot (Abstract) of the source is far less than the distance from the source of x-rays to the image capture device (Fig. 4, #13).
- 6. Regarding claim 5, Asahina further discloses an elongated human body part (Fig. 4, #12).

7. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Asahina in view of

Relihan et al. as applied to claim 1 above, and further in view of Polkus et al. (US Patent

6422749).

Asahina as modified above suggests a method as recited above.

However, Asahina does not disclose adjusting the aperture of a collimator.

Polkus et al. teaches adjusting the aperture of a collimator (Fig. 2, #24, and col. 1, lines

30-32).

It would have been obvious, to one having ordinary skill in the art at the time the

invention was made, to incorporate the suggested method of Asahina as modified above with the

adjustment of the collimator of Polkus et al., since one would be motivated to incorporate this to

better adjust the field of view (col. 1, lines 24-34) as shown by Polkus et al.

Response to Arguments

8. Claim objections in the Office Action mailed January 7, 2004, have been withdrawn in

light of the amendment filed on June 23, 2004.

9. Applicant's arguments with respect to claims 1-5 have been considered but are moot in

view of the new ground(s) of rejection.

Regarding Applicant's arguments that Polkus et al. teaches a non-moving x-ray source

and a non-moving detector, the Examiner disagrees. Note column 3, lines 21-22 and 26-28, of

Polkus et al. which discloses a moving x-ray source and detector. Thus, Polkus et al. discloses a

moving x-ray source and detector as well as its other teachings as recited above.

Application/Control Number: 09/845,588

Art Unit: 2882

Conclusion

Any inquiry concerning this communication or earlier communications from the

Page 5

examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-

2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SUPERVISORY PATENT EXAMINER